

ABSTRACT:

A LC controllable oscillator (LCCO) according to the invention comprises a voltage-controlled oscillator (VCO) and a first voltage controlled current source (VCCS) of a first type for supplying a current to the VCO. The VCO is realized with a first pair of VCCS of the first type coupled with a second pair of VCCS of a second type and a LC resonator.

- 5 The VCO generates a periodical oscillation frequency that is controllable by a control signal (V). The LCCO further comprises a replica scaled bias module (RSBM) supplied from the external voltage source. The RSBM is conceived to generate a control signal (BIAS CONTROL) for controlling the supplied current delivered by the first VCCS to the VCO.

10 Fig. 2

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